

AMENDMENT IN THE CLAIMS

Please amend claim 1 and add claims 31 thru 36 to read as follows.

1. (Currently Amended) A refrigerator comprising:

at least one chamber;

a first temperature sensor arranged to sense ~~sensing~~ a temperature of the chamber;

a second temperature sensor spaced from the first temperature sensor to sense an inner temperature of the chamber;

a temperature adjuster adjusting the inner temperature of the chamber; and

a controller controlling the temperature adjuster according to the temperature sensed by the second temperature sensor when the temperature sensed by the first temperature sensor is within a predetermined temperature range of the chamber and the temperature sensed by the second temperature sensor is not within the predetermined temperature range of the chamber.

2. (Previously Presented) The refrigerator according to claim 1, wherein the first and second temperature sensors are installed at lower and upper parts of the chamber, respectively; and

the controller is programmed with said predetermined temperature range, said predetermined temperature range comprising a first temperature range and a second temperature range to be compared with the temperatures sensed by the first and second

7 temperature sensors, respectively.

1 3. (Original) The refrigerator according to claim 1, wherein one of the first and
2 second temperature sensors is removably installed.

1 4. (Original) The refrigerator according to claim 2, wherein one of the first and
2 second temperature sensors is removably installed.

1 5. (Original) The refrigerator according to claim 3, wherein the first temperature
2 sensor is in contact with the bottom surface of the chamber and senses the temperature of the
3 surface of the chamber; and

4 the second temperature sensor is installed at the upper part of the chamber and senses
5 the inner temperature of the chamber.

1 6. (Previously Presented) The refrigerator according to claim 5, further comprising
2 a sensor accommodating part accommodating the second temperature sensor, and a sensor
3 cover opening and closing the sensor accommodating part.

1 7. (Previously Presented) The refrigerator according to claim 2, wherein the first and
2 second temperature ranges are different from each other.

1 8. (Previously Presented) The refrigerator according to claim 7, wherein the
2 controller determines whether the temperature sensed by the first temperature sensor is
3 within the first temperature range, if the temperature sensed by the second temperature
4 sensor is within the second temperature range, to thereby control the temperature adjuster.

1 9. (Previously Presented) The refrigerator according to claim 8, wherein the
2 controller controls the temperature adjuster to allow the temperature sensed by the second
3 temperature sensor to be within the second temperature range if the temperature sensed by
4 the second temperature sensor is not within the second temperature range, and determines
5 whether or not the temperature sensed by the first temperature sensor is within the first
6 temperature range, if the temperature sensed by the second temperature sensor is within the
7 second temperature range, to thereby control the temperature adjuster.

1 10.(Previously Presented) The refrigerator according to claim 7, wherein the
2 controller controls the temperature adjuster until the temperature sensed by the second
3 temperature sensor is within the second temperature range, and then determines whether or
4 not the temperature sensed by the first temperature sensor is within the first temperature
5 range, to thereby control the temperature adjuster.

1 11.(Previously Presented) The refrigerator according to claim 10, wherein the
2 controller controls the temperature adjuster to allow the temperature sensed by the second

3 temperature sensor to be within the second temperature range, if the temperature sensed by
4 the second temperature sensor is not within the second temperature range, and determines
5 whether or not the temperature sensed by the first temperature sensor is within the first
6 temperature range, if the temperature sensed by the second temperature sensor is within the
7 second temperature range, to thereby control the temperature adjuster.

1 12.(Previously Presented) The refrigerator according to claim 10, wherein the
2 controller controls the temperature adjuster until the temperature sensed by the second
3 temperature sensor is within the second temperature range, and then determines whether or
4 not the temperature sensed by the first temperature sensor is within the first temperature
5 range, to thereby control the temperature adjuster.

1 13. (Original) The refrigerator according to claim 6, further comprising first and
2 second sensor indicators indicating operating states of the first and second temperature
3 sensors; and

4 wherein the controller controls the operating states of the first and second temperature
5 sensors.

1 14.(Previously Presented) The refrigerator according to claim 13, wherein where one
2 of the first and second temperature sensors is determined to be abnormal and the other of the
3 first and second temperature sensors is determined to be normal, the controller allows the

4 sensor indicator corresponding to the abnormal sensor to indicate abnormality and
5 determines whether or not the temperature sensed by the normal temperature sensor is within
6 the temperature range of the normal temperature sensor, to thereby control the temperature
7 adjuster.

1 15. (Original) The refrigerator according to claim 10, wherein where both the first
2 and second temperature sensors are out of order, the controller allows both the first and
3 second sensor indicators to indicate the abnormalities of both the first and second
4 temperature sensors, and suspends the operation of the temperature adjuster.

1 16. (Original) The refrigerator according to claim 1, wherein the temperature adjuster
2 comprises:

3 a cooling system cooling the chamber with a compressor, a condenser, an evaporator
4 and a valve which circulate a refrigerant; and
5 a heater heating the chamber.

1 17-30. (Canceled)

1 31. (New) A refrigerator comprising:

2 at least one chamber;

3 a first temperature sensor being in contact with the bottom surface of the chamber to

4 sense the temperature of the surface of the chamber;

5 a second temperature sensor spaced from the first temperature sensor to sense an inner
6 temperature of the chamber;

7 a temperature adjuster adjusting the inner temperature of the chamber; and

8 a controller controlling the temperature adjuster according to the temperature sensed
9 by the second temperature sensor when the temperature sensed by the first temperature
10 sensor is within a predetermined temperature range of the chamber and the temperature
11 sensed by the second temperature sensor is not within the predetermined temperature range
12 of the chamber.

1 32. (New) The refrigerator according to claim 31, further comprising a sensor
2 accommodating part accommodating the second temperature sensor, and a sensor cover
3 opening and closing the sensor accommodating part.

1 33. (New) A refrigerator comprising:
2 at least one chamber;
3 a first temperature sensor arranged to sense a temperature of a surface of the chamber;
4 a second temperature sensor spaced from the first temperature sensor to sense an inner
5 temperature of the chamber;
6 a temperature adjuster adjusting the inner temperature of the chamber; and
7 a controller being programmed with a first predetermined temperature range and a

8 second predetermined temperature range, the controller controlling the temperature adjuster
9 based on a determination of whether the temperature sensed by the first temperature sensor
10 is within said first predetermined temperature range and whether the temperature sensed by
11 the second temperature sensor is within said second predetermined temperature range.

1 34. (New) The refrigerator according to claim 33, wherein the controller controls said
2 temperature adjuster based on the temperature sensed by the second temperature sensor until
3 the temperature sensed by the second temperature sensor is within said second predetermined
4 temperature range, and, once said temperature sensed by the second temperature sensor is
5 within said second predetermined temperature range, the controller controls said temperature
6 adjuster based on said temperature sensed by the first temperature sensor until said
7 temperature sensed by the first temperature sensor is within said first predetermined
8 temperature range.

1 35. (New) The refrigerator according to claim 33, wherein the temperature adjuster
2 comprises a cooling system to cool the chamber and a heater to heat the chamber, and
3 if the temperature sensed by the second temperature sensor is not within said second
4 predetermined temperature range, the controller turns off said cooler and turns on said heater
5 when the temperature sensed by the second temperature sensor is lower than said second
6 predetermined temperature range, and turns on said cooler and turns off said heater when the
7 temperature sensed by the second temperature sensor is higher than said second

8 predetermined temperature range, and if the temperature sensed by the second temperature
9 sensor is within said second predetermined temperature range, the controller turns off said
10 cooler and turns on said heater when the temperature sensed by the first temperature sensor
11 is lower than said first predetermined temperature range, and turns on said cooler and turns
12 off said heater when the temperature sensed by the first temperature sensor is higher than
13 said first predetermined temperature range.

1 36. (New) The refrigerator according to claim 35, further comprising a sensor
2 accommodating part accommodating the second temperature sensor, and a sensor cover
3 opening and closing the sensor accommodating part.